



NDE wireless cylindrical lock

Battery life estimations



Overview

This document is designed to provide detailed insights into the battery life of the Schlage® NDE wireless cylindrical lock using varying daily usage, credential and system types. While exhaustive testing was done, there are always outlying factors that could affect battery life. This data should be used as a general guide when evaluating battery life of the NDE wireless cylindrical lock.

How the data was collected

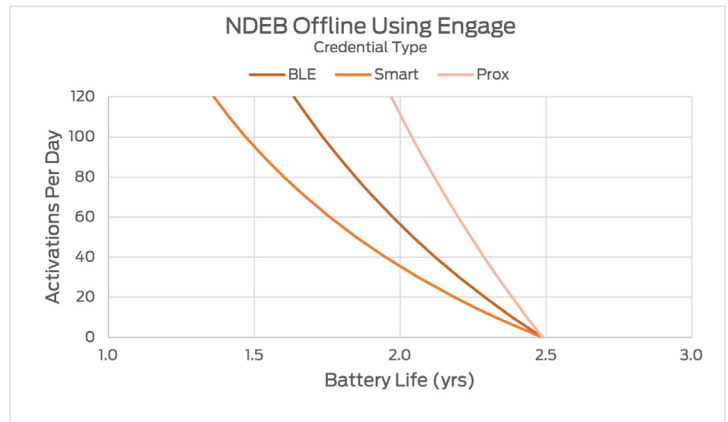
Battery life data was collected by the Allegion™ engineering teams by measuring each battery-consuming circuit individually and constructing a data model to simulate various operations. Benchtop cycle testing was then performed to confirm the data model accurately estimates real-world operation. The data model was then used to generate battery life data over a range of different credential types, traffic levels, and system modes (offline, Wi-Fi, real-time).

Testing was conducted using 4AA alkaline batteries from reputable manufacturers such as Duracell and Energizer. All calculations assume the lock is at ambient indoor temperature with default reader and Bluetooth® settings. Inside push button (IPB) was not used as typical usage does not have significant effects on battery life. Wi-Fi mode assumes one connection per day.

Offline using ENGAGE

Activations per day

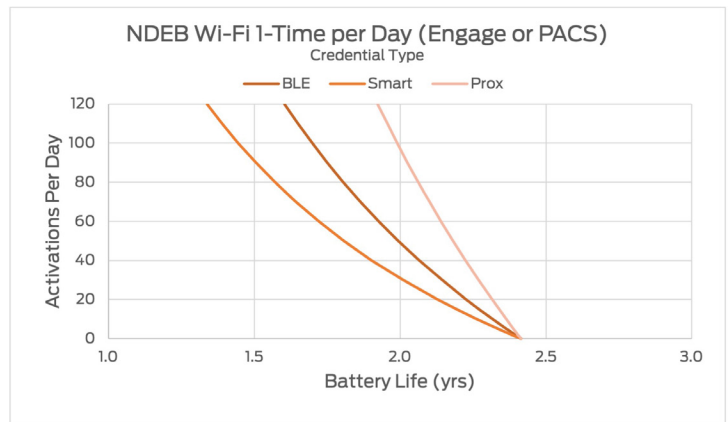
Credential type	Light (5)	Medium (30)	Heavy (75)
BLE mobile	2.4 years	2.2 years	1.9 years
Smart (no-tour)	2.4 years	2.1 years	1.7 years
Proximity	2.5 years	2.3 years	2.1 years



Wi-Fi using ENGAGE or PACS system

Activations per day

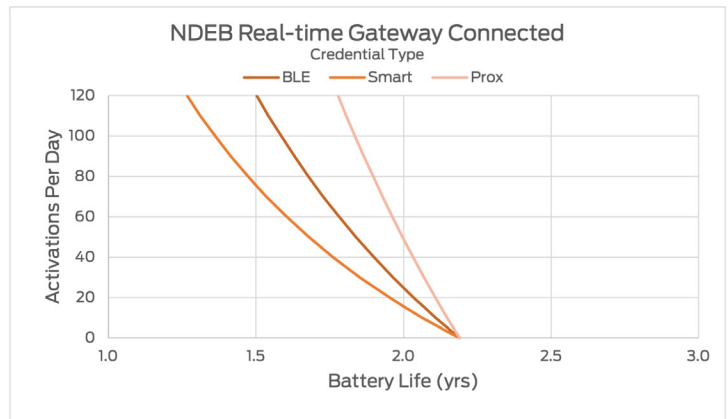
Credential type	Light (5)	Medium (30)	Heavy (75)
BLE mobile	2.4 years	2.1 years	1.8 years
Smart	2.3 years	2.0 years	1.6 years
Proximity	2.4 years	2.3 years	2.1 years



Real-time using GWE

Activations per day

Credential type	Light (5)	Medium (30)	Heavy (75)
BLE mobile	2.2 years	2.0 years	1.7 years
Smart	2.2 years	1.8 years	1.5 years
Proximity	2.2 years	2.1 years	1.9 years



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